

Serial Number: 09/964,994

Filed: September 26, 2001

In the Claims:

Please cancel Claims 1-52 without prejudice or disclaimer.


Please add new claims 53-69.

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- 53. (New) An isolated nucleic acid molecule having at least 80% sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2;
 - (b) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2, lacking its associated signal peptide;
 - (c) the nucleic acid sequence shown as SEQ ID NO:1;
 - (d) the full-length coding sequence of the nucleic acid sequence shown as SEQ ID NO:1; or
 - (e) the full-length coding sequence of cDNA deposited under ATCC accession number PTA-1532; wherein said encoded polypeptide is a receptor for and binds to the ligand polypeptide shown as SEQ ID NO:4.
54. (New) An isolated nucleic acid molecule having at least 85% sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2;
 - (b) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2, lacking its associated signal peptide;
 - (c) the nucleic acid sequence shown as SEQ ID NO:1;
 - (d) the full-length coding sequence of the nucleic acid sequence shown as SEQ ID NO:1; or
 - (e) the full-length coding sequence of cDNA deposited under ATCC accession number PTA-1532; wherein said encoded polypeptide is a receptor for and binds to the ligand polypeptide shown as SEQ ID NO:4.
55. (New) An isolated nucleic acid molecule having at least 90% sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2;
 - (b) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2,

lacking its associated signal peptide;

- (c) the nucleic acid sequence shown as SEQ ID NO:1;
- (d) the full-length coding sequence of the nucleic acid sequence shown as SEQ ID NO:1; or
- (e) the full-length coding sequence of cDNA deposited under ATCC accession number PTA-1532; wherein said encoded polypeptide is a receptor for and binds to the ligand polypeptide shown as SEQ ID NO:4.

56. (New) An isolated nucleic acid molecule having at least 95% sequence identity to:

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- (a) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2;
 - (b) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2, lacking its associated signal peptide;
 - (c) the nucleic acid sequence shown as SEQ ID NO:1;
 - (d) the full-length coding sequence of the nucleic acid sequence shown as SEQ ID NO:1; or
 - (e) the full-length coding sequence of cDNA deposited under ATCC accession number PTA-1532; wherein said encoded polypeptide is a receptor for and binds to the ligand polypeptide shown as SEQ ID NO:4.

57. (New) An isolated nucleic acid molecule having at least 99% sequence identity to:

- (a) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2;
- (b) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2, lacking its associated signal peptide;
- (c) the nucleic acid sequence shown as SEQ ID NO:1;
- (d) the full-length coding sequence of the nucleic acid sequence shown as SEQ ID NO:1; or
- (e) the full-length coding sequence of cDNA deposited under ATCC accession number PTA-1532; wherein said encoded polypeptide is a receptor for and binds to the ligand polypeptide shown as SEQ ID NO:4.

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58. (New) An isolated nucleic acid molecule comprising:
- (a) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2;
 - (b) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2, lacking its associated signal peptide;
 - (c) the nucleic acid sequence shown as SEQ ID NO:1;
 - (d) the full-length coding sequence of the nucleic acid sequence shown as SEQ ID NO:1; or
 - (e) the full-length coding sequence of cDNA deposited under ATCC accession number PTA-1532.
59. (New) The isolated nucleic acid molecule of Claim 58 comprising a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2.
60. (New) The isolated nucleic acid molecule of Claim 58 comprising a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2, lacking its associated signal peptide.
61. (New) The isolated nucleic acid molecule of Claim 58 comprising the nucleic acid sequence shown as SEQ ID NO:1.
62. (New) The isolated nucleic acid molecule of Claim 58 comprising the full-length coding sequence of the nucleic acid sequence shown as SEQ ID NO:1.
63. (New) The isolated nucleic acid molecule of Claim 58 comprising the full-length coding sequence of cDNA deposited under ATCC accession number PTA-1532.
64. (New) An isolated nucleic acid molecule that hybridizes to:
- (a) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2;
 - (b) a nucleic acid sequence encoding the polypeptide shown as SEQ ID NO:2,

lacking its associated signal peptide;

- (c) the nucleic acid sequence shown as SEQ ID NO:1;
- (d) the full-length coding sequence of the nucleic acid sequence shown as SEQ ID NO:1; or
- (e) the full-length coding sequence of cDNA deposited under ATCC accession number PTA-1532.

65. (New) The isolated nucleic acid molecule of Claim 64, wherein said hybridization occurs under stringent conditions of 50% formamide, 5 x SSC (0.75 M NaCl, 0.075 M sodium citrate), 50 mM sodium phosphate (pH 6.8), 0.1% sodium pyrophosphate, 5 x Denhardt's solution, sonicated salmon sperm DNA (50 μ g/ml), 0.1% SDS, and 10% dextran sulfate at 42°C, with washes at 42°C in 0.2 x SSC (sodium chloride/sodium citrate) and 50% formamide at 55°C, followed by a high-stringency wash consisting of 0.1 x SSC containing EDTA at 55°C.

66. (New) A vector comprising the nucleic acid molecule of Claim 1.

67. (New) The vector of Claim 66, wherein said nucleic acid is operably linked to control sequences recognized by a host cell transformed with the vector.

68. (New) A host cell comprising the vector of Claim 66.

69. (New) The host cell of Claim 68, wherein said cell is a CHO cell, an *E. coli* or a yeast cell.--